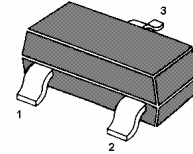
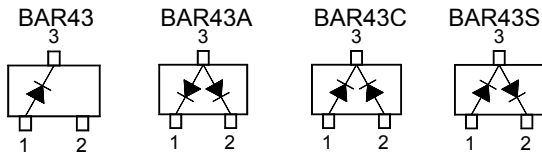


BAR43 / A / C / S

SCHOTTKY BARRIER DIODE



BAR43 Marking Code: RD
BAR43A Marking Code: RE
BAR43C Marking Code: RF
BAR43S Marking Code: RH

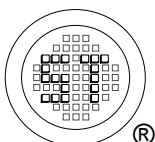
SOT-23 Plastic Package

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Maximum Repetitive Reverse Voltage	V_{RRM}	30	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current at ($t = 1\text{ s}$)	I_{FSM}	750	mA
Power Dissipation	P_{tot}	290	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	430	$^\circ\text{C/W}$
Operating Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_S	- 55 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100\text{ }\mu\text{A}$	$V_{(BR)R}$	30	-	V
Reverse Current at $V_R = 25\text{ V}$	I_R	-	500	nA
Forward Voltage at $I_F = 2\text{ mA}$ at $I_F = 15\text{ mA}$ at $I_F = 100\text{ mA}$	V_F	0.26 - -	0.33 0.45 0.8	V
Reverse Recovery Time at $I_F = I_R = 10\text{ mA}$, $I_{RR} = 1\text{ mA}$, $R_L = 100\text{ }\Omega$	t_{rr}	-	5	ns

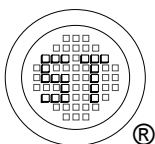
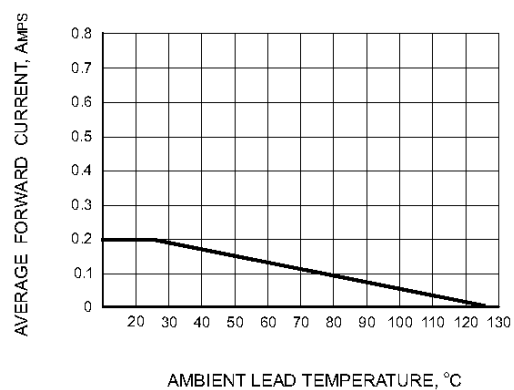
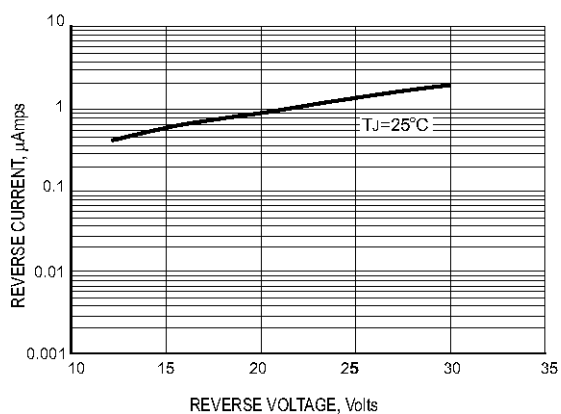
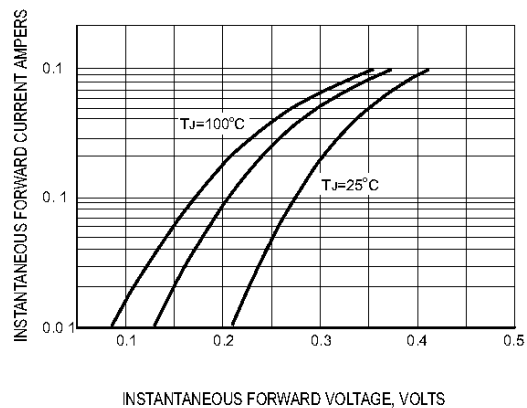
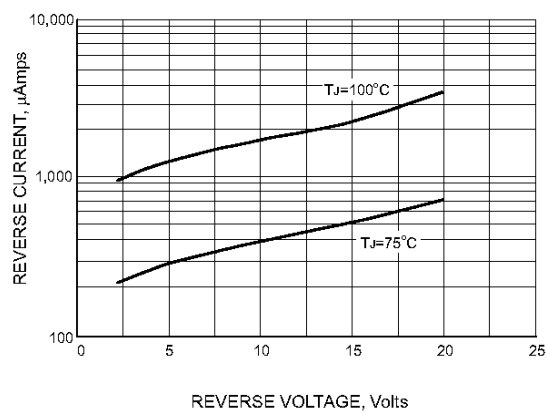


SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company
listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 10/09/2006



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ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

Dated : 10/09/2006